SATELLITE TRANSCODER LINDSTROM et al., CX03001USU 02CXT0077D, Sheet 1 of 7, Express Mail EU2451633335US

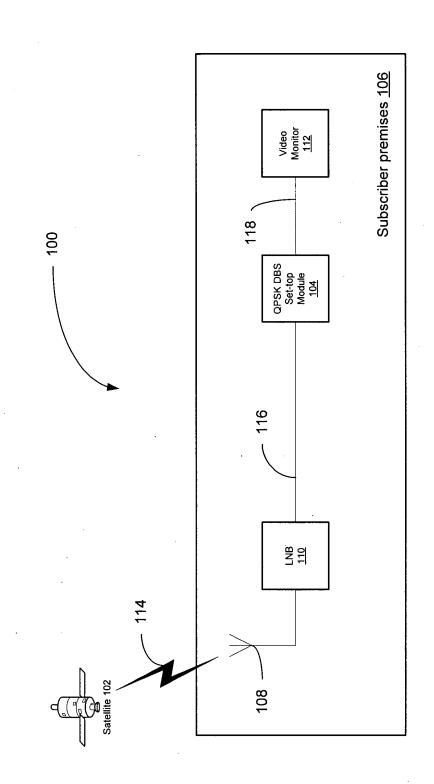


FIG. 1 (Prior Art)

SATELLITE TRANSCODER LINDSTROM et al., CX03001USU 02CXT0077D, Sheet 2 of 7, Express Mail EU245163335US

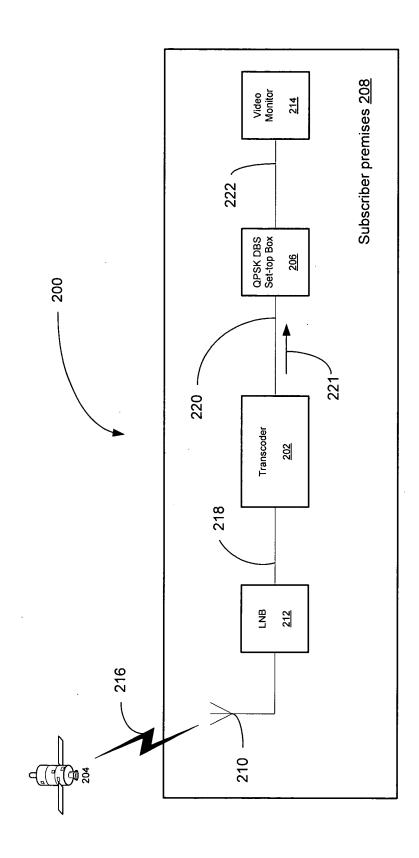


FIG. 2

SATELLITE TRANSCODER LINDSTROM et al., CX03001USU 02CXT0077D, Sheet 3 of 7, Express Mail EU245163335US

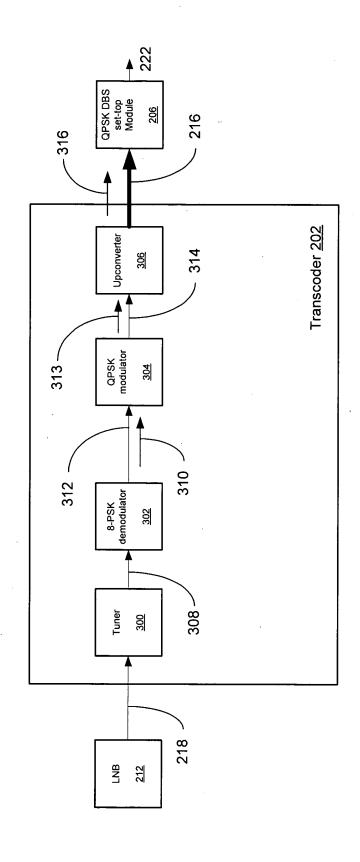


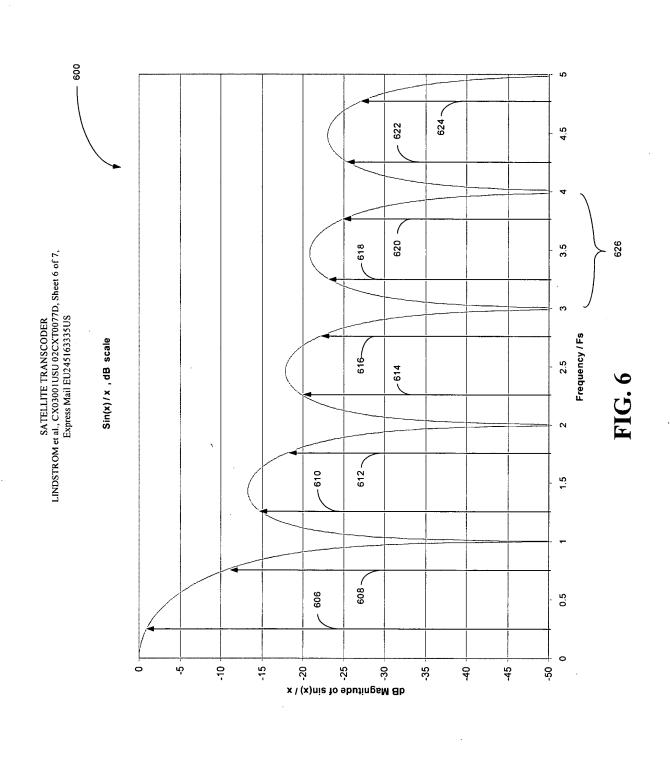
FIG.

- 436 216 434 Upconverter 400 422 Q-channel I-channel Combiner 416 420 SATELLITE TRANSCODER LINDSTROM et al., CX03001USU 02CXT0077D, Sheet 4 of 7, 90 degree Phase-Shifter 424 414 Express Mail EU245163335US Frequency Source 408 402 432 -440 Q-channel LPF l-channel LPF 406 412 430 438 -Q-channel DAC I-channel DAC 410 404 QPSK Modulator 426 428 304 310

FIG. 4

- 536 522 Sampling/Clock Frequency Source <u>502</u> Upconverter 500 DAC 516 PL 524 534 Q-channel I-channel SATELLITE TRANSCODER LINDSTROM et al., CX03001USU 02CXT0077D, Sheet 5 of 7, Combiner 512 514 510 520 |-|-. | 02 | 12 Express Mail EU245163335US 90 degree Phase-Shifter <u>518</u> 506 508 530 -532 Upsampler 504 526~ 528 -QPSK Modulator 304 310 -

**FIG. 5** 



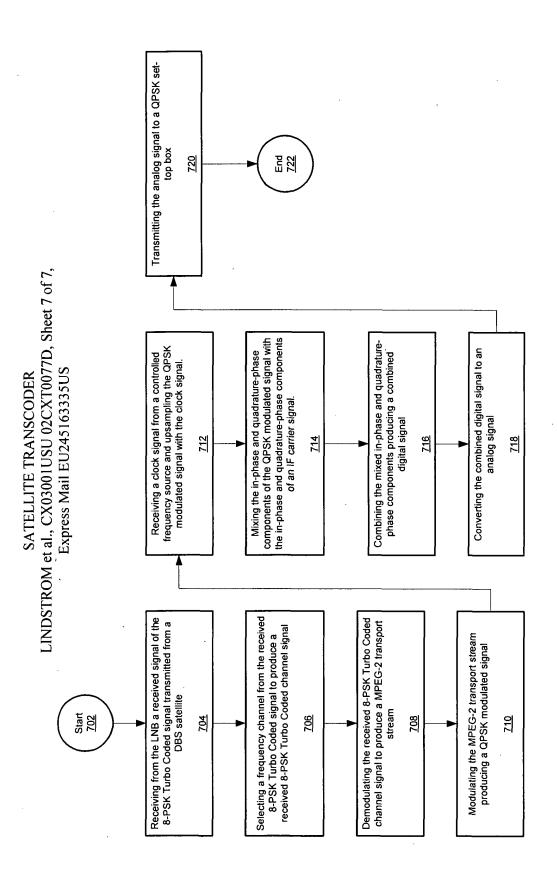


FIG.